Fig #11.10.3

New York State
Energy Research and Development Authority
Two Rockefeller Plaza • Albany, New York 12223-9998
(518) 465-6251 FAX: (518) 432-4630

February 24, 1995

U.S. EPA Region 2
Air and Waste Management Division
Hazardous Waste Facilities Branch
26 Federal Plaza, Room 1037
New York, NY 10278

Mr. Steven Doleski
Regional Permit Administrator
Division of Regulatory Affairs
New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Mr. Norman Nosenchuck, Director
Division of Hazardous
Substances Regulation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233

Dear Sirs:

SUBJECT: RCRA Part A Permit Modification #3

REFERENCES: (1) EPA Identification No. NYD986905545; West Valley RCRA Section 3008(h) Administrative Order on Consent (Docket No. II RCRA 3008(h)-92-0202).

(2) Letter, T.K. DeBoer to Steven Doleski, *RCRA Part A Permit Application*, dated June 5, 1990.

(3) Letter, T. K. DeBoer to Steven Doleski, *RCRA Part A Permit Modification*, dated July 19, 1990.

(4) Letter, T. K. DeBoer to Steven Doleski and N.G. Kaul, *RCRA Part A Permit Modification*, dated September 24, 1992.

(5) Letter, Norman H. Nosenchuck to Howard A. Jack, "Concurrence that the SDA Leachate Is Not a Listed Hazardous Waste," dated June 24, 1994.

The New York State Energy Research and Development Authority (NYSERDA) is hereby submitting a third modification to a previously submitted RCRA Part A Application (see References 2-4). This third modification of the Part A Permit Application includes the following changes:

(1) The F-039 multi-source leachate code was replaced with pertinent characteristic waste codes. In June 1994, the New York State Department of Environmental Conservation (NYSDEC) concurred with NYSERDA's determination that the leachate at the State-Licensed Disposal Area (SDA) is not a listed hazardous waste (see Reference 5).

(2) The application is no longer being defensively filed. Leachate characterization data is available indicating that the Trench 14 leachate stored in Tank T-1 at the SDA is characteristic for benzene (D-018).

(3) Environmental permit information (Section X) and the Nature of Business (Section XI) description was updated.

(4) The estimated annual quantity of hazardous waste being handled at the SDA (Section XIV) was increased to include:

- The quantity of hazardous waste treatment residues that would be generated from the operation of an exempt wastewater treatment facility[1], and
- The storage capacity of the three SDA leachate storage tanks.

Contact Colleen Gerwitz at the West Valley Office at (716) 942-4435 with any questions related to this submittal.

Sincerely,

Paul L. Piciulo

Paul L. Piciulo, Ph.D.
Program Director
Radioactive Waste Management Program

cc: NYSDEC - Tim DiGiulio
NYSDEC - Jack Krajewski
USEPA - John Nevius

[1] The plans and specifications of an SDA leachate treatment system have been approved by EPA and NYSDEC, but construction of the system has been postponed pending further evaluation of the success of other SDA projects. The leachate treatment system project is being performed under a RCRA 3008(h) Administrative Order on Consent.

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

GSA No. 0248-EPA-OT

For EPA Regional Use Only

Date Received
Month Day Year

United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the Instructions before starting)

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

[ ] A. First Part A Submission

[X] B. Part A Amendment #_____

C. Installation's EPA ID Number

NYD986905545

D. Secondary ID Number *(If applicable)*

II. Name of Facility

NYS Licensed Disposal Area

III. Facility Location *(Physical address not P.O. Box or Route Number)*

A. Street

10282 Rock Springs Road

Street *(Continued)*

City or Town

Ashford

State

NY

Zip Code

14171-0191

County Code *(If known)*

009

County Name

Cattaraugus

B. Land Type (Enter code)

S

C. Geographic Location

LATITUDE (Degrees, Minutes, & Seconds)

42 27 000

LONGITUDE (Degrees, Minutes & Seconds)

078 39 015

D. Facility Existence Date

Month Day Year

03 30 1990

IV. Facility Mailing Address

Street or P.O. Box

PO Box 191

City or Town

West Valley

State

NY

Zip Code

14171-0191

V. Facility Contact *(Person to be contacted regarding waste activities at facility)*

Name *(Last)*

Gerwitz

(First)

Colleen

Job Title

Project Manager

Phone Number *(Area Code and Number)*

716-942-4435

VI. Facility Contact Address *(See instructions)*

A. Contact Address
Location Mailing Other

[ ] [X] [ ]

B. Street or P.O. Box

City or Town

State

Zip Code

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*: NYD986905545

Secondary ID Number *(Enter from page 1)*:

VII. Operator Information *(See instructions)*

Name of Operator: NYS Energy Res & Dev Authority

Street or P.O. Box: 2 Empire State Plaza

City or Town: Albany

State: NY

ZIP Code: 12223-9998

Phone Number *(Area Code and Number)*: 518-465-6251

B. Operator Type: S

C. Change of Operator Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

VIII. Facility Owner *(See Instructions)*

A. Name of Facility's Legal Owner: NYS Energy Res & Dev Authority

Street or P.O. Box: 2 Empire State Plaza

City or Town: Albany

State: NY

ZIP Code: 12223-9998

Phone Number *(Area Code and Number)*: 518-465-6251

B. Owner Type: S

C. Change of Owner Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

IX. SIC Codes *(4-digit, in order of significance)*

Primary	Secondary
9511 (Description) Air, Water, Solid Waste Management	(Description)
Secondary	**Secondary**
(Description)	(Description)

X. Other Environmental Permits *(See Instructions)*

A. Permit Type (Enter code)	B. Permit Number	C. Description
E	(1) *	6 NYCRR Part 380 Permit
E	(2) *	6 NYCRR Part 380 Permit
E	(3) *	6 NYCRR Part 380 Permit
N	(4) *	SPDES Permit
P	(5) *	6 NYCRR Part 201 Permit
P	(6) *	6 NYCRR Part 201 Permit
	* See Additional Information attachment	

SITE NAME NYS-Licensed LLRW Disposal Area

EPA ID. NYD 986 905 545

ADDITIONAL INFORMATION

U. S. EPA Form 8700-23

X. Other Environmental Permits

(1) The 6 NYCRR Part 380 Land Burial Permit for the State-Licensed Low-Level Waste Disposal Area (SDA) is permit number 9-0422-0011/00003-0, Facility/Program number 137-6. It consists of an "exemption authorizing burial of radioactive wastes, dated Nov 7, 63," and exemption from Part 16 of the New York Sanitary Code (originally issued by the NYS Department of Health and later transferred to the jurisdiction of NYSDEC), and a series of amendments and conditions to the exemptions. The original application was given Committee on Licensing (COL) number 670. The permit was transferred from Nuclear Fuel Services, the original permit holder, to the New York State Energy Research and Development Authority via letter from NYSDEC Region 9 dated 21 Jan 83.

(2) The 6 NYCRR Part 380 Air Discharge Permit for the State Licensed Low-Level Radioactive Waste Disposal Area (SDA) is permit number 9-0422-0011/00004-0, Facility/Program number 137-3. This permit was issued to control the emission of radionuclides from the Trench 14 water/leachate storage tank vent at the SDA.

(3) The 6 NYCRR part 380 Permit for the Bioengineering Management Pilot Project on Trench 9 at the State-Licensed Low-Level Radioactive Waste Disposal Area (SDA) is permit number 9-0422-011/00007-9, Facility Program Number 137-5. This permit was issued to implement a bioengineering management project on Trench 9 at the SDA.

(4) The State Pollutant Discharge Elimination System (SPDES) Permit for the West Valley Demonstration Project (WVDP) is permit number NY-0000973, DEC Number 9-0422-00005/00006-0. The SPDES permit is issued to the United States Department of Energy (DOE) and authorizes discharges at the WVDP. Discharges from the proposed Trench 14 leachate treatment system are authorized under this permit 7.

(5) The 6 NYCRR Part 201 Air Permit for the laboratory hood is permit number A-042200-0238-SDA01. The permit to construct and the certificate to operate the laboratory hood were obtained for the purposes of conducting treatability study testing on the leachate.

(6) The 6 NYCRR Part 201 Air Permit for the tank vent is permit number A-042200-0238-SDA-02. The permit to construct and the certificate to operate the storage tank vent were obtained to allow storage of leachate in tanks at the SDA prior to treatment.

EPA I.D. Number *(Enter from page 1)*

N	Y	D	9	8	6	9	0	5	5	4	5

Secondary ID Number *(Enter from page 1)*

XI. Nature of Business *(Provide a brief description)*

See Additional Information attachment

XII. Process Codes and Design Capacities

A. PROCESS CODE - *Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.*

B. PROCESS DESIGN CAPACITY - *For each code entered in column A, enter the capacity of the process.*
1. AMOUNT - *Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.*
2. UNIT OF MEASURE - *For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.*

C. PROCESS TOTAL NUMBER OF UNITS - *Enter the total number of units used with the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:	
D79	Underground Injection	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet or Hectare-meter
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day r Liters Per Day
D83	Surface Impoundment	Gallons or Liters
D99	Other Disposal	Any Unit of Measure Listed Below
	Storage:	
S01	Container (Barrel, Drum, Etc.)	Gallons or Liters
S02	Tank	Gallons or Liters
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons or Liters
S05	Drip Pad	Gallons or Liters
S06	Containment Building-Storage	Cubic Yards or Cubic Meters
S99	Other Storage	Any Unit of Measure Listed Below
	Treatment:	
T01	Tank	Gallons Per Day or Liters Per Day
T02	Surface Impoundment	Gallons Per Day or Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T80	Boiler	Gallons or Liters
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, Or Refining Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T88	Titanium Dioxide Chloride Process Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed in 40 CFR §260.10	
T94	Containment Building-Treatment	Cubic Yards or Cubic Meters
	Miscellaneous (Subpart X):	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; or Kilograms Per Hour
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
X04	Geologic Repository	Cubic Yards or Cubic Meters
X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	G
Gallons Per Hour	E
Gallons Per Day	U
Liters	L
Liters Per Hour	H
Liters Per Day	V

UNIT OF MEASURE	UNIT OF MEASURE CODE
Short Tons Per Hour	D
Metric Tons Per Hour	W
Short Tons Per Day	N
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	R

UNIT OF MEASURE	UNIT OF MEASURE CODE
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
Btu's Per Hour	I

SITE NAME NYS-Licensed LLRW Disposal Area

EPA ID. NYD 986 905 545

ADDITIONAL INFORMATION

U. S. EPA Form 8700-23

XI. Nature of Business

The New York State Licensed Disposal Area is a former commercial Low-Level Radioactive Waste (LLRW) disposal facility which was shut down in 1975. The facility is owned and operated by the NEW YORK STATE ENERGY RESEARCH & DEVELOPMENT AUTHORITY (NYSERDA) on behalf of the people of the State of New York. Water infiltration and accumulation within the disposal trenches creates a leachate which must be managed to avoid uncontrolled releases from the trenches to the environment. The leachate is contaminated with hazardous constituents and radionuclides as a result of its percolation through the disposed LLRW. NYSERDA is reducing the generation of additional leachate through the installation of a variety of infiltration control projects. NYSERDA is prepared to pump leachate from the trenches to storage tanks and/or construct a RCRA exempt wastewater treatment unit which will render the waste nonhazardous, remove radioactive constituents, and discharge the treated wastewater via a regulated outfall. Storage capacity is available for materials such as hazardous debris, soils, and treatment residues which may be generated as a result of NYSERDA's SDA and leachate management activities.

EPA I.D. Number *(Enter from page 1)*: N Y D 9 8 6 9 0 5 5 4 5

Secondary ID Number *(Enter from page 1)*:

XII. Process Codes and Design Capabilities *(Continued)*

EXAMPLE FOR COMPLETING ITEM XII (Shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. PROCESS DESIGN CAPACITY 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	For Official Use Only
X 1	S 0 2	5 3 3 . 7 8 8	G	0 0 1	
1	S 0 2	51,200.	G	0 0 3	
2	S 0 1	4,345.	G	0 0 2	
3		.			
4		.			
5		.			
6		.			
7		.			
8		.			
9		.			
10		.			
11		.			
12		.			
13		.			

***NOTE:** If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item XIII.*

XIII. Other Processes *(Follow instructions from item XII for D99, S99, T04 and X99 process codes)*

Line Number (Enter #s in seq w/XII)	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. PROCESS DESIGN CAPACITY 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	D. Description Of Process
X 1	T 0 4	.			In-situ Vitrification
1		.			
2		.			
3		.			
4		.			

EPA I.D. Number *(Enter from page 1)*												Secondary ID Number *(Enter from page 1)*											
N	Y	D	9	8	6	9	0	5	5	4	5												

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - *Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.*

B. ESTIMATED ANNUAL QUANTITY - *For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.*

C. UNIT OF MEASURE - *For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:*

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. *Enter the first two as described above.*
2. *Enter "000" in the extreme right box of item XIV-D(1).*
3. *Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).*

2. PROCESS DESCRIPTION: *If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).*

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. *Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.*
2. *In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.*
3. *Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.*

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (1) PROCESS CODES (Enter code)	D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
X 1	K 0 5 4	900	P	T 0 3 D 8 0	
X 2	D 0 0 2	400	P	T 0 3 D 8 0	
X 3	D 0 0 1	100	P	T 0 3 D 8 0	
X 4	D 0 0 2				Included With Above

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GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*: N Y D 9 8 6 9 0 5 5 4 5

Secondary ID Number *(Enter from page 1)*:

XIV. Description of Hazardous Wastes *(Continued)*

Line Number	A. EPA HAZARDOUS WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter code)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D018	484,000	P	S01 S02	
2	D007	< 10	P	S01	
3	D009				Included with above
4	D011				Included with above
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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30					
31					
32					
33					

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
N Y D 9 8 6 9 0 5 5 4 5	

XV. Map

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature F. William Valentino, President	Date Signed February 27, 1995
Name and Official Title (Type or print)	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature	Date Signed
Name and Official Title (Type or print)	

XIX. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information)